



**CITY OF LODI  
COUNCIL COMMUNICATION**

**AGENDA TITLE:** Adopt Resolution Authorizing Additional Task Orders for West Yost & Associates to Prepare Work Plans Required by the City's Wastewater Discharge Permit and for Ongoing Permit Assistance and Appropriating \$317,000 in the Wastewater Fund

**MEETING DATE:** December 19, 2007

**PREPARED BY:** Public Works Director

**RECOMMENDED ACTION:** Adopt a resolution authorizing additional task orders for West Yost & Associates to prepare White Slough Water Pollution Control Facility work plans required in the City's discharge permit issued by the State Central Valley Regional Water Quality Control Board and for additional ongoing permit assistance and appropriating \$317,000 in the Wastewater Fund.

**BACKGROUND INFORMATION:** The City's new wastewater discharge permit includes requirements for a number of studies to be conducted and plans or reports to be developed on various aspects of the City's wastewater treatment operations. These studies begin with preparation of a work plan which describes, in some detail, the work to be done, sampling methods and frequencies, reports to be issued and a schedule. In addition, the City's permit issued by the Central Valley Regional Water Quality Control Board, has been appealed (the formal term is "petitioned") to the State Water Resources Control Board by the California Sportfishing Protection Alliance (CSPA).

Our wastewater consultant, West Yost & Associates, has furnished the City with a combined proposal to address these issues (Exhibit A). The regulatory issues involved include preparing a response to the CSPA petition, working with the San Joaquin Valley Unified Air Pollution Control District on the new biosolids rule, and assisting City staff in implementing the various new permit compliance requirements.

The studies/plans that need work plans include the following, which are explained in more detail in Exhibit A:

- A Corrective Action Plan/Method of Compliance Plan – This pertains to new compliance limits on aluminum, ammonia, chlorodibromomethane and dichlorobromomethane.
- Pollution Prevention Plan – This plan includes evaluating sources and potential reduction of the above constituents plus manganese, nitrate and nitrite (except ammonia).
- Toxicity Reduction Evaluation – This involves the various aquatic life tests that are performed on the City's effluent.
- Title 22 Report – This is for the required preparation of a report to State Department of Health Services Standards covering use of recycled water.
- Winter Irrigation Management Plan – This pertains to risks from flooding.
- Temperature Study – This pertains to establishing site-specific discharge requirements for the temperature of the City's wastewater discharge.

APPROVED:   
Blair King, City Manager

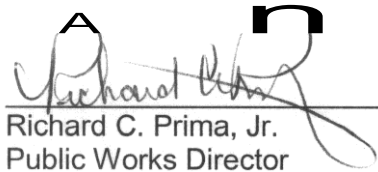
- Industrial Influent Characterization Study – This involves the City's separate industrial (primarily cannery) wastewater effluent which is land applied.
- Land Discharge Loading Study – This pertains to the new requirement that limits application rates of industrial wastewater (primarily cannery).

Separate task orders for groundwater studies will be brought to the Council separately.

Staff is recommending that we continue to utilize the services of West Yost & Associates for this work as they are very familiar with the City's permit and our operations and have performed well for us in the past.

**FISCAL IMPACT:** The estimated cost for this work is \$288,200 and staff would suggest a contingency amount of approximately 10% in the event of unforeseen issues, for a total of \$317,000. The studies/plans are required in the City's permit and non-performance would subject the City to significant fines.

**FUNDING AVAILABLE:** These costs were not identified during the budget process in early 2007 since the permit was not issued until after the budget was completed but were accounted for in the recent fiscal analysis prepared for the 2007 Wastewater COP financing. Some of the costs will be directly recovered through adjustments in Industrial System charges as provided in the City's ordinance.

  
\_\_\_\_\_  
Kirk Evans, Budget Manager  
\_\_\_\_\_  
Richard C. Prima, Jr.  
Public Works Director

RCP/pmf

Attachment

cc: Charlie Swimley, Water Services Manager  
Bruce West, West Yost & Associates



November 16, 2007

Mr. Richard C. Prima Jr.  
Public Works Director  
City of Lodi  
221 West Pine Street  
Lodi, CA 95240

**SUBJECT:** Proposal for Engineering Services—NPDES Permit Adoption Support, SWRCB  
Petition Response Support, and Permit Compliance Studies for Fiscal Year  
2007-2008

Dear Mr. Prima:

West Yost Associates (WYA) appreciates the opportunity to present to you this letter proposal for engineering services related to ongoing assistance to the City of Lodi (City) in meeting the compliance requirements for the Lodi Water Pollution Control Facility (WPCF).

The scope of work presented in this proposal includes the development of work plans and other submittals that are anticipated to be needed within the next six to nine months (through the end of the 2007/2008 Fiscal Year). The tasks completed under this scope of work will be used to define the scope for later efforts, thereby resulting in the most efficient use of the City's resources. As such, each of the tasks outlined below could be expanded to cover additional support efforts required by the City as the individual studies progress.

Note that the scope of work for some of the efforts described below can only be estimated at this time, and the associated budget presented below for this task are based on WYA's knowledge of the City's current permitting concerns. If these budgets are not expended in the timeframe anticipated for this scope of services, they can be directed toward the completion of later efforts.

WYA will continue to rely on support from our legal team at Somach, Simmons, and Dunn (SSD) to complete certain work efforts described in this letter. In addition, Robertson Bryan Inc. (RBI) will be subcontracted for the tasks that require expertise in accessing toxicity and fish and aquatic life habitats in the receiving waters; and Dr. Mitchell Johns, a certified agronomist, will be retained to provide support in assessing the City's land management activities.

## **OVERVIEW**

The Regional Water Quality Control Board (Regional Board) adopted the final NPDES permit and associated Time Schedule Order (TSO) for the City's WPCF on September 14, 2007. A schedule

showing the compliance activities required over the entire five year term of this permit is attached to this scope of work. As shown, there are several tasks that will require development within the next six to nine months. This scope of work is intended to cover the majority of these efforts.

Note that this scope does not cover any efforts pertaining to groundwater requirements in the permit. These efforts haven been presented under a separate scope of work. In addition, this scope of work does not include a separate task to complete the Organic Loading Study. Under the Regulatory Program Management task, WYA will provide support for completing these efforts; however, the majority of the study will be funded under a separate contract with the PCP Cannery.

A Petition for Permit Review was filed by the California Sports Fisheries Alliance on October 14, 2007. This petition requests that the State Water Resources Control Board (State Board) vacate the recently adopted NPDES permit and remand it to the Regional Board with instructions prepare and circulate a new tentative order that comports with regulatory requirements. Assuming this petition is deemed complete and the State Board elects to review the City's permit, the City will need to develop and submit a comprehensive response to the petition within the next 60 days. The City may also be required participate in an evidentiary hearing in front of the State Board. This scope of work includes a task to provide the City with support in these efforts. This task also includes the development of a response to the State Water Resources Control Board (State Board) staff issued report "City of Lodi Wastewater Disposal Practices and Groundwater Impacts" (State Board Report) that was already completed by WYA during the permit renewal process.

In March 2007, the San Joaquin Valley Air Pollution Control District (SJVAPCD) adopted Biosolids Operation Rule 4565. This rule requires that the implement additional controls for Volatile Organic Carbon (VOC) emissions from the City's biosolids land application practices. The City will not be able to comply with the SJVAPCD Biosolids Operation Rule by the compliance date of March 2008. Therefore, the City will need to work with SJVAPCD staff to identify a compliance strategy and timeline that can be incorporated into a temporary variance. This scope of work includes a task to provide the City with ongoing assistance related to the SJVAPCD Biosolids Operation Rule 4565, including some efforts that have already completed by WYA.

## **SCOPE OF WORK**

The proposed scope of services includes the following tasks:

- Task 1. Project Management
- Task 2. State Board Report Response and State Board Petition Support
- Task 3. SJVAPCD Biosolids Rule Compliance
- Task 4. Regulatory Program Management
- Task 5. Land Application Monitoring Coordination
- Task 6: Compliance Studies (Includes Data Review, Compliance Action Plan Development, and Pollution Prevention Plan Work Plan Development)
- Task 7: Toxicity Reduction Evaluation (Includes Data Review and Work Plan Development)
- Task 8: Title 22 Report (Includes Work Plan Development)
- Task 9: Wintertime Irrigation Management Plan (Includes Work Plan Development)
- Task 10: Temperature Study (Includes Data Review and Work Plan Development)
- Task 11: Industrial Influent Characterization Study (Includes Work Plan Development)
- Task 12. Land Discharge Organic Loading Study (Includes Work Plan Development)

These tasks are discussed in more detail below.

### **Task 1. Project Management**

Task 1 includes project management-related activities including general project coordination. In addition, to ensure continued achievement of consistently high quality work products, and in accordance with the WYA Quality Assurance/Quality Control (QA/QC) policy, a WYA staff member at the Principal Engineer level or higher will review progress and significant work products. Brief descriptions of services performed under this task will be included on monthly invoices.

### **Task 2. State Board Report Response and State Board Petition Support**

This task includes the preparation of a detailed response to the State Board Report. As noted above, this effort has already been completed.

Additional efforts that will be necessary under this task are difficult to determine at this time, however, these efforts may include the following:

- Development of a response to the Petition for Permit Review was recently filed by the California Sports Fisheries Alliance. It is anticipated that this effort will primarily consist of combining previous submittals completed by WYA.

- Support in the event that the City is required to participate in an evidentiary hearing in front of the State Board.

The actual level of effort necessary and the ultimate deliverables are uncertain. Therefore, a nominal fee (in addition to the efforts already expended) has been assumed for this task. All work will be performed on a time and material basis. Monthly invoices will detail the efforts and costs. However, depending on the level of effort required, a scope and budget amendment may be necessary in the future.

Somach Simmons and Dunn will provide support services related to these efforts.

*Deliverable: Report that provides the City's response to the State Board Report.*

### **Tasks 3. SJVAPCD Biosolids Rule Compliance**

This task includes the following efforts that have been completed to date:

- Several phone conversations with SJVAPCD staff regarding the rule requirements and incorporation of this information into Technical Memorandum No. 3: Land Application System Best Practicable Treatment and Control Assessment.
- Preparation for and participation in an initial meeting with SJVAPCD staff. The purpose of this meeting was to begin the necessary dialogue regarding the City's compliance strategies.

Additional efforts that will be necessary under this task are difficult to determine at this time, however, these efforts may include the following:

- Additional coordination with SJVAPCD staff regarding variance requirements
- Coordination with potential sub consultants regarding assessing the "baseline" VOC emissions at the City's site

The actual level of effort necessary and the ultimate deliverables are uncertain. Therefore, a nominal fee (in addition to the efforts already expended) has been assumed for this task. All work will be performed on a time and material basis. Monthly invoices will detail the efforts and costs. However, depending on the level of effort required, a scope and budget amendment may be necessary in the future.

*Deliverable: Minutes from initial meeting with SJVAPCD staff.*

### **Task 4. Regulatory Program Management**

WYA anticipates that the City will continue to require ongoing assistance related to understanding general regulatory compliance issues and implementing the measures needed to achieve compliance. It is difficult to predict the level of effort needed for this task. Assistance under this task is anticipated to include the following items:

1. Working with City staff to understand the permit compliance requirements;
2. Presenting an overview of permit requirements and associated issues to City WPCF staff;
3. Maintaining and updating the attached implementation schedule for the compliance measures;
4. Developing of presentations for City staff, Council, and/or other consultants to the City outlining the regulatory compliance concerns;
5. Reviewing permits and other regulatory guidance documents issued by the Regional Board and SWRCB that would be applicable to the WPCF;
6. Providing assistance to the City, as needed, for developing responses to Regional Board requests;
7. Providing assistance in developing semi-annual permit compliance progress reports;
8. Coordinating efforts for groundwater analyses, land discharge organic loading study, and other related cannery discharge issues;
9. Helping the City to develop monitoring programs;
10. Completing analyses of data collected by the City to identify potential future regulatory concerns;
11. Providing support to the City and the PCP Cannery in completion of the Land Discharge Organic Loading Study;
12. Attending and preparing for meetings to discuss the results of such activities outlined above.

All of the specific work efforts and deliverables under this task cannot reasonably be determined at this time. However, all work will be performed on a time and material basis. For budgeting purposes, a nominal fee is assumed for this task. Monthly invoices will detail the efforts and costs. Depending on the level of effort required, a scope and budget amendment may be necessary in the future. These tasks may require support from our legal consultants (SSD), and a small budget has also been assumed for these efforts.

It will be critical that the City's regulatory compliance efforts are completed in coordination with Regional Board staff and other regulatory authorities. It is imperative that these agencies are in agreement with the study approach and the type and amount of information to be obtained from the study. Therefore, this task also involves the participation of WYA staff and our subconsultants, as needed, in meetings with the appropriate regulatory agency staff. As shown in the attached schedule, meetings are currently anticipated in early February (for the Land Discharge Organic Loading Study), and in early March (for the Groundwater Monitoring Well Installation Work Plan and the TRE Work Plan, Method of Compliance Work Plan and Pollution Prevention Plan, the Title 22 Work Plan, the Wintertime Irrigation Management Plan Work Plan, the Temperature Study Work Plan, and the Industrial Influent Characterization Study Work Plan). Other coordination meetings may also be required.

As the first step of this support program, WYA will develop a technical memorandum summarizing the permit requirements. This document will provide a complete summary of all actions, including documentation, monitoring, studies and/or upgrades that the City must undertake for compliance with the new permit. This summary will be a convenient reference for the City and will also include the time schedule for completion of each of the required tasks.

In addition, WYA will provide a brief document that outlines the number and frequency of tests, the laboratory standards, and the testing protocols for the priority pollutants analyses required under the NPDES permit. This document can be incorporated into a proposal request issued by the City to identify and select the best laboratory for characterizing the WPCF effluent.

*Deliverable: A Technical Memorandum with the summary of permit compliance actions required from the City. A brief document outlining recommended laboratory procedures and testing frequencies. Up to five meetings with the City, the Regional Board, DFG and/or other regulatory authorities regarding the acceptability of the proposed Work Plans.*

#### **Task 5. Land Application Monitoring Coordination**

The new NPDES permit requires that the City significantly increase the level of monitoring for the land application area site. In addition, the City must employ the efforts of a certified agronomist in the completion of an Annual Cropping and Irrigation Report. This task involves providing the following tasks related to these efforts:

- Update the spreadsheet management tool to include the new monitoring and reporting requirements
- Review the 2007 data and help develop the required 2007 Annual Cropping and Irrigation Report
- Coordination with Dr. Mitchell Johns for review and approval of the 2007 Annual Cropping and Irrigation Report
- Coordination with City staff and tenant farmers regarding collection of required monitoring data
- Development of monitoring data worksheets

*Deliverables: An electronic version of the updated Spreadsheet Management Tool. The 2007 Annual Land Management Report with approval by Dr. Mitchell Johns. Monitoring data collection work sheets.*

#### **Task 6. Compliance Studies**

The following compliance studies are required under the new NPDES permit:

- Corrective Action Plan/Method of Compliance Work Plan



- Pollution Prevention Plan
- Treatment Feasibility Study

This task includes the initial efforts that will need to be completed for these studies. Note that there are not any initial efforts needed for the Treatment Feasibility Study subtask. However, any efforts necessary in the future could be incorporated into this task.

#### Subtask 6.1. Corrective Action Plan/Method of Compliance Work Plan

The new NPDES permit requires that the City submit within one year of the effective date of the permit (or by November 3, 2008) a Corrective Action Plan and Implementation Schedule. The purpose of this submittal is to outline the City's proposed actions for achieving compliance with the new effluent limitations for aluminum, ammonia, chlorodibromomethane, and dichlorobromomethane.

The new TSO requires that the City submit within six months of the effective date of the order (or by May 2, 2008) a Method of Compliance Work Plan and Schedule. The purpose of this submittal is to outline the City's proposed actions for achieving compliance with the new effluent limitations for nitrate, nitrite, and manganese.

This subtask involves the completion of both of these efforts. Note that these two submittals will contain similar information. Therefore, to reduce the amount of resources needed to complete these efforts, the City should complete one document that satisfies both of the two requirements outlined above. As shown in the attached schedule, this document will be provided to the City such that it can be submitted no later than May 2, 2008.

Note that the City has already identified the actions that will be implemented to achieve compliance. These efforts, combined with the studies required under the permit, will be described in the Work Plan completed under this subtask. Following the Executive Office approval of this Work Plan, the City will need to submit annual reports (August 1) detailing the progress that has been made toward achieving compliance. Any support provided by WYA in completing these Annual Reports will be covered under the Regulatory Program Management Task (Task 4) described above.

*Deliverable: Corrective Action Plan/Method of Compliance Work Plan and Schedule*

#### Subtask 7.2. Pollution Prevention Plan

The new NPDES permit requires that the City submit within one year of the effective date of the permit (or by November 3, 2008) a Work Plan for the completion of a Pollution Prevention Plan (PPP). The purpose of the Work Plan is to describe the efforts that will be completed by the City to identify and reduce (if possible) the source loadings of mercury, aluminum, chlorodibromomethane, and dichlorobromomethane to the WPCF.

The new TSO requires that the City submit within six months of the effective date of the order (or by May 2, 2008) a PPP for manganese, nitrate, and nitrite.

This subtask involves the completion of both of these initial efforts. Note that these two submittals will contain similar information. Therefore, to reduce the amount of resources needed to complete these efforts, the City should complete one document that satisfies both of the two requirements outlined above. As shown in the attached schedule, this document will be provided to the City such that it can be submitted no later than May 2, 2008.

This subtask also involves a detailed review of the City's historic influent and water supply testing data to initially identify potential sources of these pollutants of concern.

Note that the NPDES permit provides the City with a two year timeline to complete the PPP from when the PPP Work Plan is approved by the Executive Officer. However, the TSO does not include a similar timeline (the PPP is essentially due my May 2, 2008). The City cannot be reasonably expected to complete an entire PPP analysis within this timeframe. Therefore, it is recommended that following some initial data collection and review, the City meet with the Regional Board staff to discuss the PPP approach required under both Orders to and to gain approval for applying the same two-year time schedule for both efforts. This meeting will be covered under the Regulatory Program Management Task (Task 4) described above.

Following the Executive Office approval of this Work Plan, the City will need to complete several actions to develop the PPP. The support required by the City to complete these activities cannot be reasonably identified at this time. Therefore, this task does not currently include any additional efforts needed for completion of the PPP.

Finally, the City will also need to submit annual reports (August 1) detailing the progress that has been made toward completion of the PPP. Any support provided by WYA in completing these Annual Reports will be covered under the Regulatory Program Management Task (Task 4) described above.

*Deliverable: Pollution Prevention Plan Work Plan and Schedule*

## **Task 7. Toxicity Reduction Evaluation (TRE)**

The City's NPDES permit requires that the City submit a TRE Work Plan that will:

*"...outline the procedures for identifying the source(s) of, and reducing or eliminating effluent toxicity. The TRE Work Plan must be developed in accordance with USEPA guidance and be of adequate detail to allow the Discharger to immediately initiate a TRE..."*

As described in the permit:

*"A TRE is a site-specific study conducted in a stepwise process to identify the source(s) of toxicity and the effective control measures for effluent toxicity. TREs are designed to identify the causative agents and sources of whole effluent toxicity, evaluate the effectiveness of the toxicity control options, and confirm the reduction in effluent toxicity."*

The TRE Work Plan must be submitted to the Regional Board within 90 days of the effective date of the permit, or by February 1, 2008.

This task involves a detailed review of the City's historic chronic toxicity testing data to identify potential historic causes of toxicity and the development of a TRE Work Plan in accordance with the permit requirements described above.

Note that the City may be required to initiate a TRE if the monitoring triggers outlined in the permit are exceeded. The level of assistance needed by the City in developing the TRE cannot be outlined at this time. Therefore, this task does not currently include assistance with the TRE development.

Given their expertise, RBI would serve as the technical lead for this work. However, WYA will provide support and coordination in completing these efforts. Coordination meetings required over the next six to nine months in support of completing this task will be covered under the Regulatory Program Management Task (Task 4) described above.

*Deliverable: Toxicity Reduction Evaluation (TRE) Work Plan*

#### **Task 8. Title 22 Report**

The NPDES permit requires that the City submit a Title 22 Report Work Plan that describes the actions that will be taken by the City to complete a Title 22 Engineers Report for the current reclamation practices. The Title 22 Report Work Plan must be submitted to the Regional Board within six months of the effective date of the permit, or by May 2, 2008.

Note that the City currently is required to treat 100 percent of the reclaimed water to tertiary standards just to meet the Title 22 water quality requirements for the Northern California Power Authority (NCPA) power plant cooling water (even though only a portion of the water is directed to this site). Based on discussions with City staff, the Title 22 Report will be developed based on the assumption that this practice will continue.

Following the Executive Office approval of this Work Plan, the City will need to complete several actions over a two-year period to develop the Title 22 Report (including Title 22 verification of the UV disinfection facilities). The support required by the City to complete these activities cannot be reasonably identified at this time. Therefore, this task does not currently include any additional efforts needed for completion of the Title 22 Report.

*Deliverable: Title 22 Report Work Plan*

#### **Task 9. Wintertime Irrigation Management Plan**

The NPDES permit requires that the City submit a Wintertime Irrigation Management Plan Work Plan that describes the actions that will be taken by the City to identify the appropriate measures needed to minimize water quality impacts during flooding events that would cause washout of wastewater or biosolids from the land application area. The Wintertime Irrigation Management Plan Work Plan must be submitted to the Regional Board within six months of the effective date of the permit, or by May 2, 2008.

The permit requires that the Work Plan be approved by the Executive Officer. Therefore, at least one coordination meeting with Regional board staff is anticipated. WYA participation in coordination meetings required over the next six to nine months in support of completing this task will be covered under the Regulatory Program Management Task (Task 4) described above.

Following the Executive Office approval of this Work Plan, the City will need to complete several actions over a six-month period to develop the Wintertime Irrigation Management Plan. The support required by the City to complete these activities cannot be reasonably identified at this time. Therefore, this task does not currently include any additional efforts needed for completion of the Wintertime Irrigation Management Plan.

*Deliverable: Wintertime Irrigation Management Plan Work Plan*

#### **Task 10. Temperature Study**

The NPDES permit requires that the City submit a Temperature Study Work Plan that describes a proposed investigation of the City's receiving waters to define what future objectives should be applied to the receiving water with respect to temperature. Temperature Study Work Plan must be submitted within six months of the effective date of the permit, or by May 2, 2008.

This task involves both a detailed review of the City's historic effluent and receiving water temperature data to identify potential issues associated with historic elevated discharge temperatures, and the development of a Temperature Study Work Plan. In addition, a brief Technical Memorandum outlining recommended chronic toxicity sampling procedures will be provided.

Given their expertise in this area, RBI would serve as the technical lead for this work. WYA will provide support and coordination efforts during the completion of this study.

The Work Plan will require approval by the Regional Board and Department of Fish and Game (DFG). Therefore, at least one coordination meeting with Regional board staff is anticipated. WYA and RBI participation in coordination meetings required with these agencies over the next six to nine months in support of completing this task will be covered under the Regulatory Program Management Task (Task 4) described above.

Following the Executive Office approval of this Work Plan, the City will need to complete several actions over a two-year period to develop the Temperature Study. The support required by the City to complete the Temperature Study activities cannot be reasonably identified at this time. Therefore, this task does not currently include any additional efforts needed for completion of the Temperature Study.

*Deliverable: Temperature Study Work Plan. Technical Memorandum outlining recommended chronic toxicity sampling procedures.*

#### **Task 11. Industrial Influent Characterization Study**

The NPDES permit requires that the City submit an Industrial Influent Characterization Study Work Plan that describes the actions that will be completed to characterize the wastewater

influent collected by its industrial line. The Industrial Influent Characterization Study Work Plan must be submitted within six months of the effective date of the permit, or by May 2, 2008.

The permit requires that the Work Plan be approved by the Executive Officer. Therefore, at least one coordination meeting with Regional board staff is anticipated. WYA participation in coordination meetings required over the next six to nine months in support of completing this task will be covered under the Regulatory Program Management Task (Task 4) described above.

Following the Executive Office approval of this Work Plan, the City will need to complete several actions over a two-year period to develop the Industrial Influent Characterization Study. The support required by the City to complete these activities cannot be reasonably identified at this time. Therefore, this task does not currently include any additional efforts needed for completion of the Industrial Influent Characterization Study.

*Deliverable: Industrial Influent Characterization Study Work Plan*

**Task 12. Land Discharge Organic Loading Study**

The NPDES permit requires that the City submit a Land Discharge Organic Loading Study Work Plan that describes the actions that will be completed to evaluate the appropriate maximum daily BOD loading limitations to ensure nuisance conditions will not occur. The City also has the option of including in this work plan a study to evaluate the site-specific cycle average BOD loading limit that prevents 1) odorous anaerobic conditions, 2) incomplete removal of organics in the soil profile, 3) mobilization of iron, manganese, and other compounds, or 4) increases in bicarbonate in the soil solution via carbon dioxide conditions.

The Land Discharge Organic Study Work Plan must be submitted within six months of the effective date of the permit, or by May 2, 2008.

WYA will complete this effort in coordination with our subconsultant, Dr. Mitchell Johns. Based on initial discussions with City staff, the preferred testing procedures will include both the use of soil columns for determining the appropriate cycle average loading limitations and a field study to evaluate the potential for nuisance conditions and to verify the soil column results. However, the use of a soil column approach will be dependent upon the prior-approval by the Regional Board. Therefore, the experimental work plan will also include a literature review that will support the proposed soil column approach and methods. All technical, statistical, and experimental components to be employed will be included in work plan.

The permit requires that the Work Plan be approved by the Executive Officer. Therefore, at least one coordination meeting with Regional Board staff is anticipated. In addition, coordination meetings with PCP Cannery staff will be necessary. WYA participation in these coordination meetings required over the next six to nine months in support of completing this task will be covered under the Regulatory Program Management Task (Task 4) described above.

Following the Executive Office approval of this Work Plan, the City will need to complete several actions over a two-year period to develop the study. The support required by the City to complete these activities cannot be reasonably identified at this time. Therefore, this task does not

Mr. Richard C. Prima Jr.

November 16, 2007

Page 12

currently include any additional efforts needed for completion of the Wintertime Irrigation Management Plan.

*Deliverable: Land Discharge Organic Loading Study Work Plan*

## **PROJECT BUDGET**

The total fee for the scope of work described above is estimated to be \$288,200. A summary of the project costs by task is shown in Table 1, and a detailed breakdown is attached. WYA will perform all work on an hourly basis at standard company charge rates, and will not exceed the estimated cost without written authorization. If additional budget is required to complete work identified herein, WYA will request City authorization prior to exceeding the budget.

**Table 1. Fee Estimate for Proposed Scope of Services**

Task	Total Budget, dollars	WYA Budget, dollars	Technical Subconsultant Budget (RBI), dollars	Legal Support Budget (SSD), dollars	Mitchell Johns, dollars
Task 1. Project Management	16,300	14,100	2,200	—	—
Task 2. State Board Support	54,200	33,300	—	20,900	—
Task 3. SJVAPCD Biosolids Rule Compliance	14,500	14,500	—	—	—
Task 4. Regulatory Program Management	73,500	61,000	5,500	5,500	1,500
Task 5. Land Application Monitoring Coordination	43,500	38,000	—	—	5,500
Task 6. Compliance Studies	14,700	14,700	—	—	—
Task 7. Toxicity Reduction Evaluation	19,500	2,400	17,100	—	—
Task 8. Title 22 Report	5,600	5,600	—	—	—
Task 9. Wintertime Irrigation Management Plan	5,600	5,600	—	—	—
Task 10. Temperature Study	19,000	2,500	16,500	—	—
Task 11. Industrial Influent Characterization Study	9,000	9,000	—	—	—
Task 12. Land Discharge Organic Loading Study	12,800	6,200	—	—	6,600
<b>Total</b>	<b>288,200</b>	<b>206,900</b>	<b>41,300</b>	<b>26,400</b>	<b>13,600</b>

**SCHEDULE**

Work will begin upon notice to proceed from City, and will be completed within six to nine months of permit adoption, in accordance with the timelines included therein. A detailed schedule showing all of the permit compliance activities is attached. WYA and our sub-consultants will provide additional services related to the studies needed under the renewed permit, subject to mutually agreeable adjustments to the scope, authorized budget, and schedule.

Mr. Richard C. Prima Jr.

November 16, 2007

Page 14

WYA appreciates the opportunity to provide additional permitting services to the City. Please contact me if you have any questions or need additional information.

Sincerely,

WEST YOST ASSOCIATES

A handwritten signature in cursive script, appearing to read 'Kathryn Gies', written in dark ink.

Kathryn Gies  
Senior Engineer

cc: Charles Swimley, City of Lodi  
Del Kerlin, City of Lodi



Estimated Staff Hours and Budget West Yost Associates						Labor		Drafting		Modeling		Costs				Sub. 1	Sub. 2	Sub. 3
	P/V/P \$189 BGW/JDP	SE/SS \$147 KEG	PE/PS \$163 KLL	ADMIV \$84	AE/AS \$131 MAC	Hours	Fee	Hours	Fee 25	Hours	Fee 25	Routine ODC 5%	Sub. w/ markup 10%	Other Direct	Total Costs	SSD	RBI	Mit J
PROJECT: Regulatory Assistance - Preliminary Draft																		
Task 1.0 Project Management																		
1.01 General	40	40				80	\$ 13,440					\$ 672	\$ 2,200		\$ 16,312		\$ 2,000	
Subtotal, Task 1 (hours)	40	40	0	0	0	80		0		0								
Subtotal, Task 1 (\$)	\$ 7,560	\$ 5,880	\$ -	\$ -	\$ -		\$ 13,440		\$ -		\$ -	\$ 672	\$ 2,200	\$ -	\$ 16,312	\$ -	\$ 2,000	\$ -
Task 2.0 State Board Assistance																		
2.01 State Board Report Response		40	8	8		56	\$ 7,856	0	\$ -	0	\$ -	\$ 393	\$ 4,400		\$ 12,649	\$ 4,000		
2.02 Petition Response	8	40	16	8		72	\$ 10,672					\$ 534	\$ 11,000		\$ 22,206	\$ 10,000		
2.03 State Board Hearing Support	16	60		16		92	\$ 13,188					\$ 659	\$ 5,500		\$ 19,347	\$ 5,000		
Subtotal, Task 2 (hours)	24	140	24	32	0	220		0		0								
Subtotal, Task 2 (\$)	\$ 4,536	\$ 20,580	\$ 3,912	\$ 2,688	\$ -		\$ 31,716		\$ -		\$ -	\$ 1,586	\$ 20,900	\$ -	\$ 54,202	\$ 19,000	\$ -	\$ -
Task 3.0 SJVAPCD Coordination																		
3.01 Meetings		16				16	\$ 2,352					\$ 118	\$ -		\$ 2,470			
3.02 Incorporate Findings Into TM #3		4		24		28	\$ 2,604					\$ 130	\$ -		\$ 2,734			
3.03 Ongoing Coordination		60				60	\$ 8,820					\$ 441	\$ -		\$ 9,261			
Subtotal, Task 3 (hours)	0	80	0	24	0	104		0		0								
Subtotal, Task 3 (\$)	\$ -	\$ 11,760	\$ -	\$ 2,016	\$ -		\$ 13,776		\$ -		\$ -	\$ 689	\$ -	\$ -	\$ 14,465	\$ -	\$ -	\$ -
Task 4.0 Regulatory Program Management																		
4.01 General Support		160		20	80	260	\$ 35,680					\$ 1,784	\$ 5,885		\$ 43,349	\$ 4,000		\$ 1,350
4.02 Permit Summary Report		20		12	40	72	\$ 9,188					\$ 459	\$ -		\$ 9,647			
4.03 Presentation for City Staff		24				24	\$ 3,528					\$ 176	\$ -		\$ 3,704			
4.04 Laboratory Requirements Summary		24		4		28	\$ 3,864					\$ 193	\$ -		\$ 4,057			
4.05 Meetings (5)		40				40	\$ 5,880					\$ 294	\$ 6,600		\$ 12,774	\$ 1,000	\$ 5,000	
Subtotal, Task 4 (hours)	0	268	0	36	120	424		0		0								
Subtotal, Task 4 (\$)	\$ -	\$ 39,396	\$ -	\$ 3,024	\$ 15,720		\$ 58,140		\$ -		\$ -	\$ 2,907	\$ 12,485	\$ -	\$ 73,532	\$ 5,000	\$ 5,000	\$ 1,350
Task 5.0 Land Application Area Monitoring and Coordination																		
5.01 Spreadsheet Tool Update		40			120	160	\$ 21,600					\$ 1,080	\$ -		\$ 22,680			
5.02 Annual Reports		12		8	24	44	\$ 5,580					\$ 279	\$ 5,500		\$ 11,359			\$ 5,000
5.03 Data Collection Support		40			24	64	\$ 9,024					\$ 451	\$ -		\$ 9,475			
Subtotal, Task 5 (hours)	0	92	0	8	168	268		0		0								
Subtotal, Task 5 (\$)	\$ -	\$ 13,524	\$ -	\$ 672	\$ 22,008		\$ 36,204		\$ -		\$ -	\$ 1,810	\$ 5,500	\$ -	\$ 43,514	\$ -	\$ -	\$ 5,000

Estimated Staff Hours and Budget West Yost Associates		P/V/P \$189 BGW/JDP	SE/SS \$147 KEG	PE/PS \$163 KLL	ADMIV \$84	AE/AS \$131 MAC	Labor		Drafting		Modeling		Costs				Sub. 1 SSD	Sub. 2 RBI	Sub. 3 Mit J
PROJECT: Regulatory Assistance - Preliminary Draft							Hours	Fee	Hours	Fee 25	Hours	Fee 25	Routine ODC 5%	Sub. w/ markup 10%	Other Direct	Total Costs			
Task 6.0 Regulatory Compliance Studies																			
6.01 Method of Compliance Work Plan/Schedule			40		8		48	\$ 6,552					\$ 328	\$ -		\$ 6,880			
6.02 Data Review			16				16	\$ 2,352					\$ 118	\$ -		\$ 2,470			
6.03 Pollution Prevention Plan Work Plan			12		40		52	\$ 5,124					\$ 256	\$ -		\$ 5,380			
Subtotal, Task 6 (hours)		0	68	0	48	0	116		0		0								
Subtotal, Task 6 (\$)		\$ -	\$ 9,996	\$ -	\$ 4,032	\$ -		\$ 14,028		\$ -		\$ -	\$ 701	\$ -	\$ -	\$ 14,729	\$ -	\$ -	\$ -
Task 7.0 Toxicity Reduction Evaluation																			
7.01 Work Plan and Data Review			16				16	\$ 2,352					\$ 118	\$ 17,050		\$ 19,520		\$ 15,500	
Subtotal, Task 7 (hours)		0	16	0	0	0	16		0		0								
Subtotal, Task 7 (\$)		\$ -	\$ 2,352	\$ -	\$ -	\$ -		\$ 2,352		\$ -		\$ -	\$ 118	\$ 17,050	\$ -	\$ 19,520	\$ -	\$ 15,500	\$ -
Task 8.0 Title 22 Engineering Report																			
8.01 Work Plan			12		4	24	40	\$ 5,244					\$ 262	\$ -		\$ 5,506			
Subtotal, Task 8 (hours)		0	12	0	4	24	40		0		0								
Subtotal, Task 8 (\$)		\$ -	\$ 1,764	\$ -	\$ 336	\$ 3,144		\$ 5,244		\$ -		\$ -	\$ 262	\$ -	\$ -	\$ 5,506	\$ -	\$ -	\$ -
Task 9.0 Wintertime Irrigation Management Plan																			
9.01 Work Plan			12		4	24	40	\$ 5,244					\$ 262	\$ -		\$ 5,506			
Subtotal, Task 9 (hours)		0	12	0	4	24	40		0		0								
Subtotal, Task 9 (\$)		\$ -	\$ 1,764	\$ -	\$ 336	\$ 3,144		\$ 5,244		\$ -		\$ -	\$ 262	\$ -	\$ -	\$ 5,506	\$ -	\$ -	\$ -
Task 10.0 Temperature Study																			
10.01 Work Plan			16				16	\$ 2,352					\$ 118	\$ 16,500		\$ 18,970		\$ 15,000	
Subtotal, Task 10 (hours)		0	16	0	0	0	16		0		0								
Subtotal, Task 10 (\$)		\$ -	\$ 2,352	\$ -	\$ -	\$ -		\$ 2,352		\$ -		\$ -	\$ 118	\$ 16,500	\$ -	\$ 18,970	\$ -	\$ 15,000	\$ -

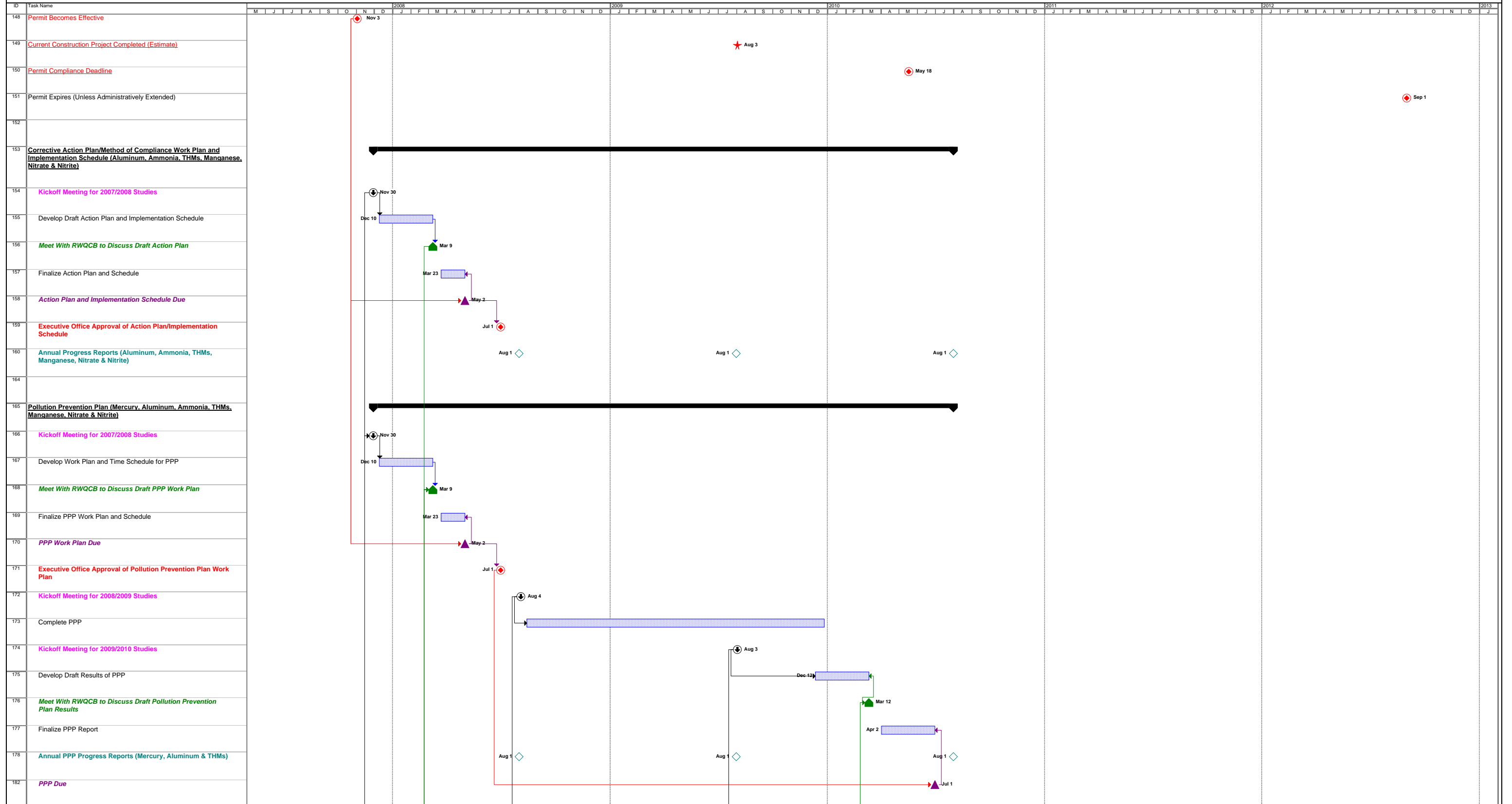
Estimated Staff Hours and Budget West Yost Associates							Labor	Drafting		Modeling		Costs				Sub. 1 SSD	Sub. 2 RBI	Sub. 3 Mit J
	P/VP \$189 BGW/JDP	SE/SS \$147 KEG	PE/PS \$163 KLL	ADMIV \$84	AE/AS \$131 MAC	Hours	Fee	Hours	Fee 25	Hours	Fee 25	Routine ODC 5%	Sub. w/ markup 10%	Other Direct	Total Costs			
PROJECT: Regulatory Assistance - Preliminary Draft																		
Task 11.0 Industrial Influent Characterization Study																		
11.01 Work Plan		16		12	40	68	\$ 8,600					\$ 430	\$ -		\$ 9,030			
Subtotal, Task 11 (hours)	0	16	0	12	40	68		0		0								
Subtotal, Task 11 (\$)	\$ -	\$ 2,352	\$ -	\$ 1,008	\$ 5,240		\$ 8,600		\$ -		\$ -	\$ 430	\$ -	\$ -	\$ 9,030	\$ -	\$ -	\$ -
Task 12.0 BOD Organic Loading Study																		
12.01		40				40	\$ 5,880					\$ 294	\$ 6,600		\$ 12,774			\$ 6,000
Subtotal, Task 12 (hours)	0	40	0	0	0	40		0		0								
Subtotal, Task 12 (\$)	\$ -	\$ 5,880	\$ -	\$ -	\$ -		\$ 5,880		\$ -		\$ -	\$ 294	\$ 6,600	\$ -	\$ 12,774	\$ -	\$ -	\$ 6,000
TOTAL (hours)	64	800	24	168	376	1432		0		0								
TOTAL (\$)	\$12,096	\$117,600	\$3,912	\$14,112	\$49,256		\$ 196,976		\$ -		\$ -	\$ 9,849	\$ 81,235	\$ -	\$ 288,060	\$ 24,000	\$ 37,500	\$ 12,350

**City of Lodi**  
**Water Pollution Control Facility**  
**NPDES Permit Compliance Master Schedule**

The chart displays the following tasks and their durations:

- Task 1:** Permit Becomes Effective (Nov 3, 2008)
- Task 2:** Permit Expires (Unless Administratively Extended) (Sep 1, 2012)
- Task 4:** Kickoff Meeting for Initial Studies and Coordination (Oct 22, 2008)
- Task 5:** Develop RFP for Priority Pollutant Analysis (Nov 11, 2008)
- Task 6:** Develop Permit Requirements Technical Memorandum (Nov 30, 2008)
- Task 7:** Present Permit Summary Information to City Staff (Dec 10, 2008)
- Task 9:** Discharger Self Monitoring (starting Dec 1, 2008)
- Task 10:** Begin Continuous Monitoring (Nov 3, 2008)
- Task 11:** Begin Daily Monitoring (Nov 3, 2008)
- Task 12:** Begin Weekly Monitoring (Nov 5, 2008)
- Task 13:** Begin Monthly Monitoring (Dec 1, 2008)
- Task 14:** Monthly Monitoring Reports (starting Feb 1, 2009)
- Task 69:** Begin Quarterly Monitoring (Jan 1, 2009)
- Task 70:** Quarterly Monitoring Reports (starting May 1, 2009)
- Task 90:** Begin Annual Monitoring (Jan 1, 2009)
- Task 91:** Annual Monitoring Reports (starting Feb 1, 2009)
- Task 97:** Annual Operations Reports (starting Jan 30, 2009)
- Task 104:** Pretreatment Requirements (starting Dec 1, 2008)
- Task 105:** First Annual Monitoring for Pre-Treatment Program (Influent, Effluent, Sludge) (Dec 1, 2008)
- Task 106:** Quarterly Pre-Treatment Industrial User Compliance Status Reports (starting Jan 21, 2009)
- Task 126:** Annual Pre-Treatment Report (Copies to EPA and SWRCB) (starting Feb 28, 2009)
- Task 133:** Cropping and Irrigation Management (starting Oct 22, 2008)
- Task 134:** Kickoff Meeting for Initial Studies and Coordination (Oct 22, 2008)
- Task 135:** Update Spreadsheet Management Tool & Develop Irrigation Area Monitoring Program, Develop 2007 Cropping and Irrigation Report (Nov 3, 2008)
- Task 136:** Land Discharge Monitoring Begins (Apr 1, 2009)
- Task 137:** Annual Cropping and Irrigation Reports (starting Feb 1, 2009)

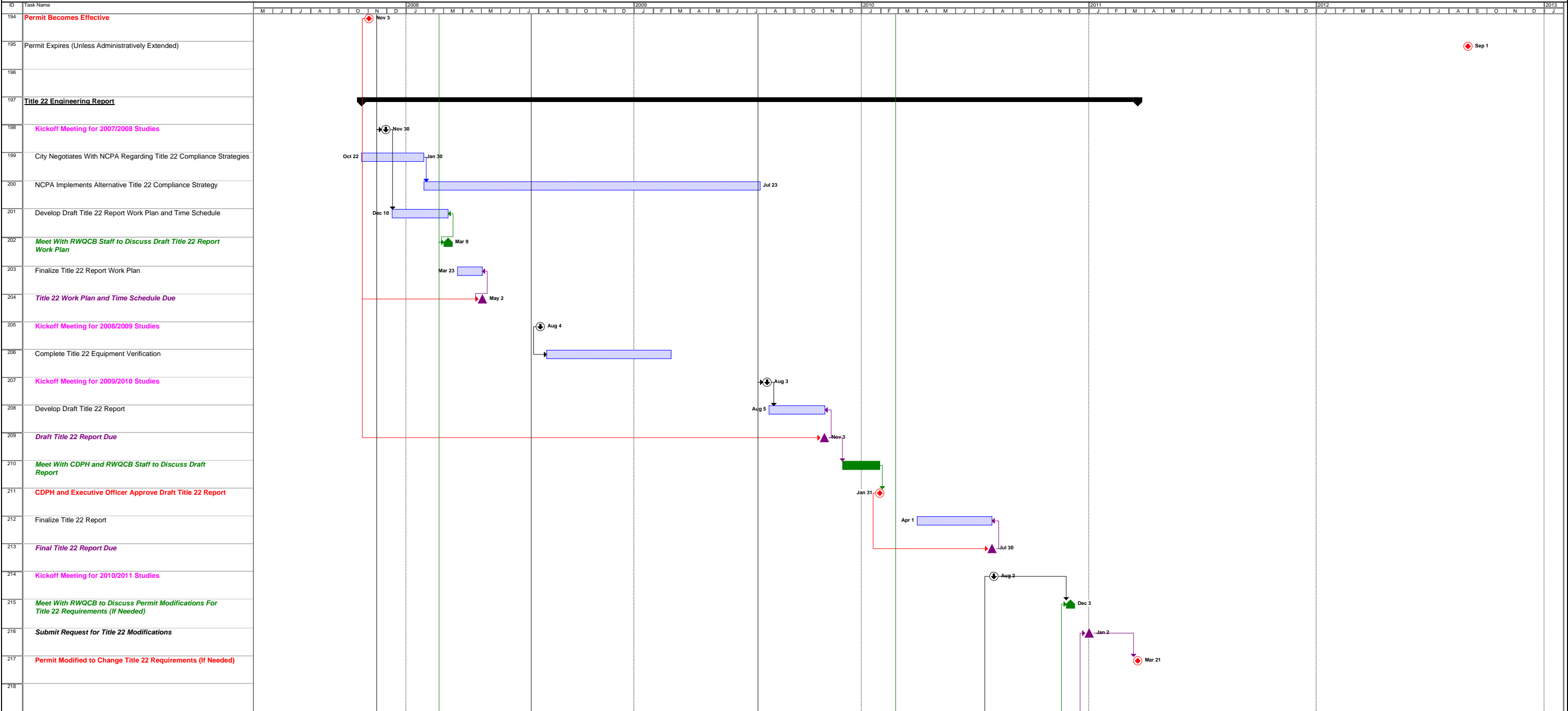
**City of Lodi  
Water Pollution Control Facility  
NPDES Permit Compliance Master Schedule**



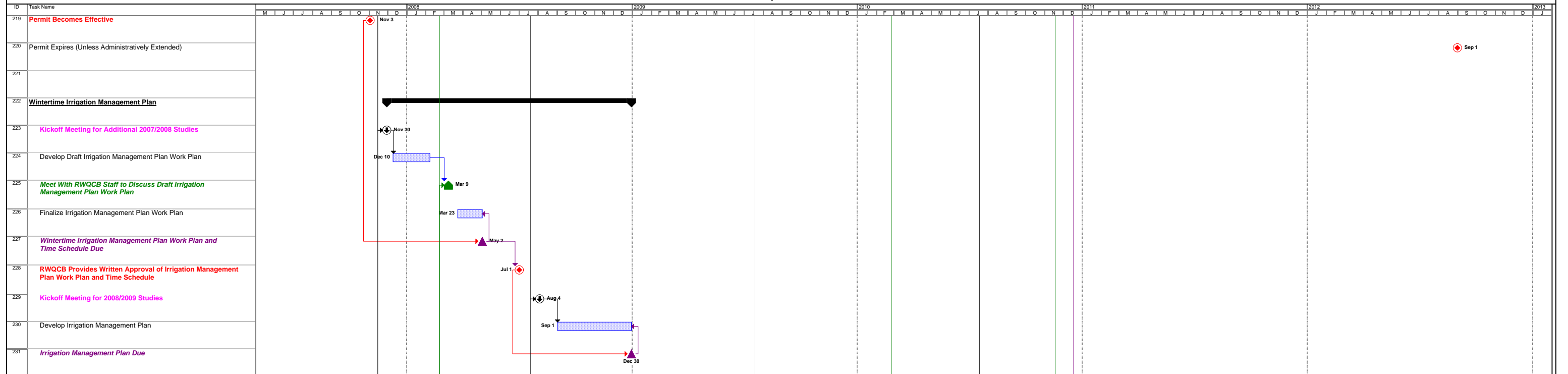
**City of Lodi  
Water Pollution Control Facility  
NPDES Permit Compliance Master Schedule**



City of Lodi  
Water Pollution Control Facility  
NPDES Permit Compliance Master Schedule

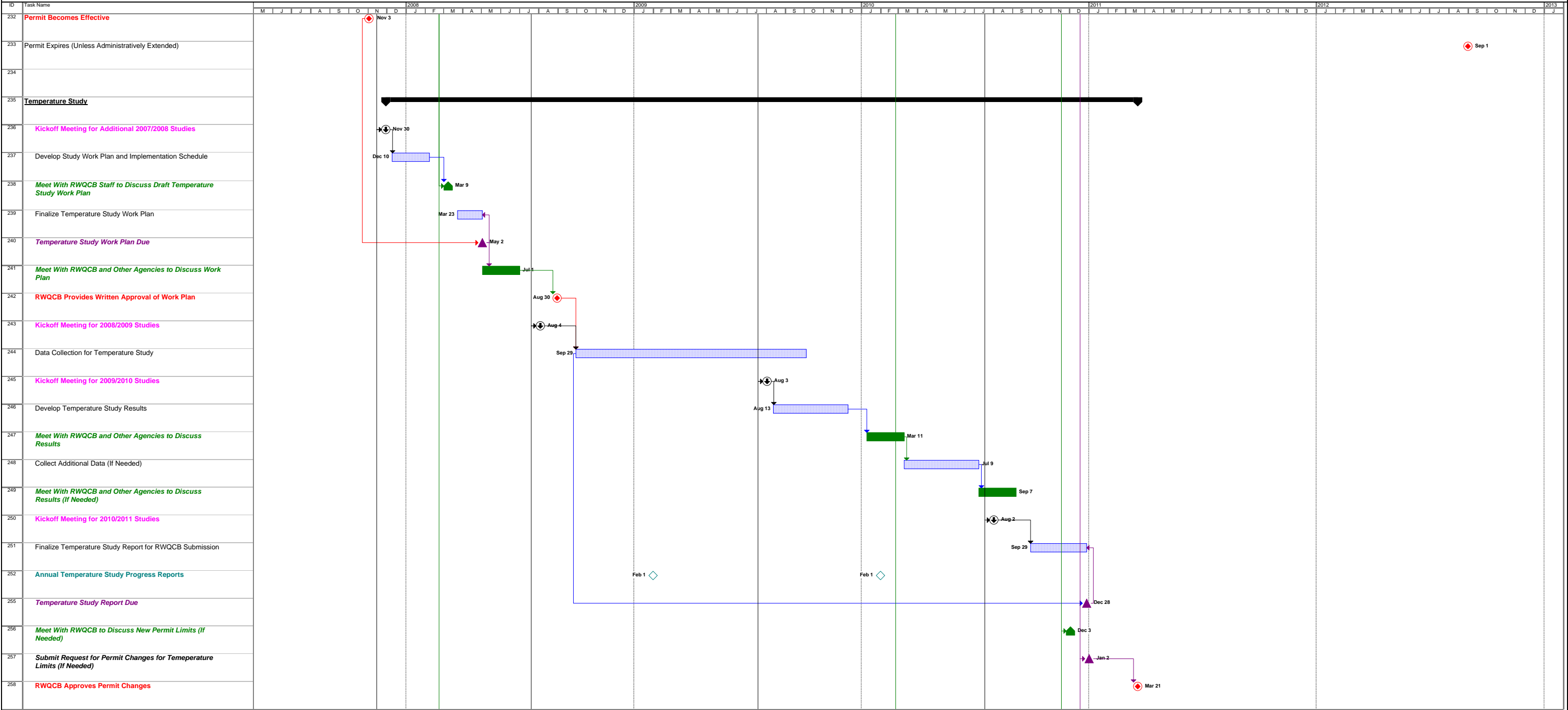


**City of Lodi**  
**Water Pollution Control Facility**  
**NPDES Permit Compliance Master Schedule**

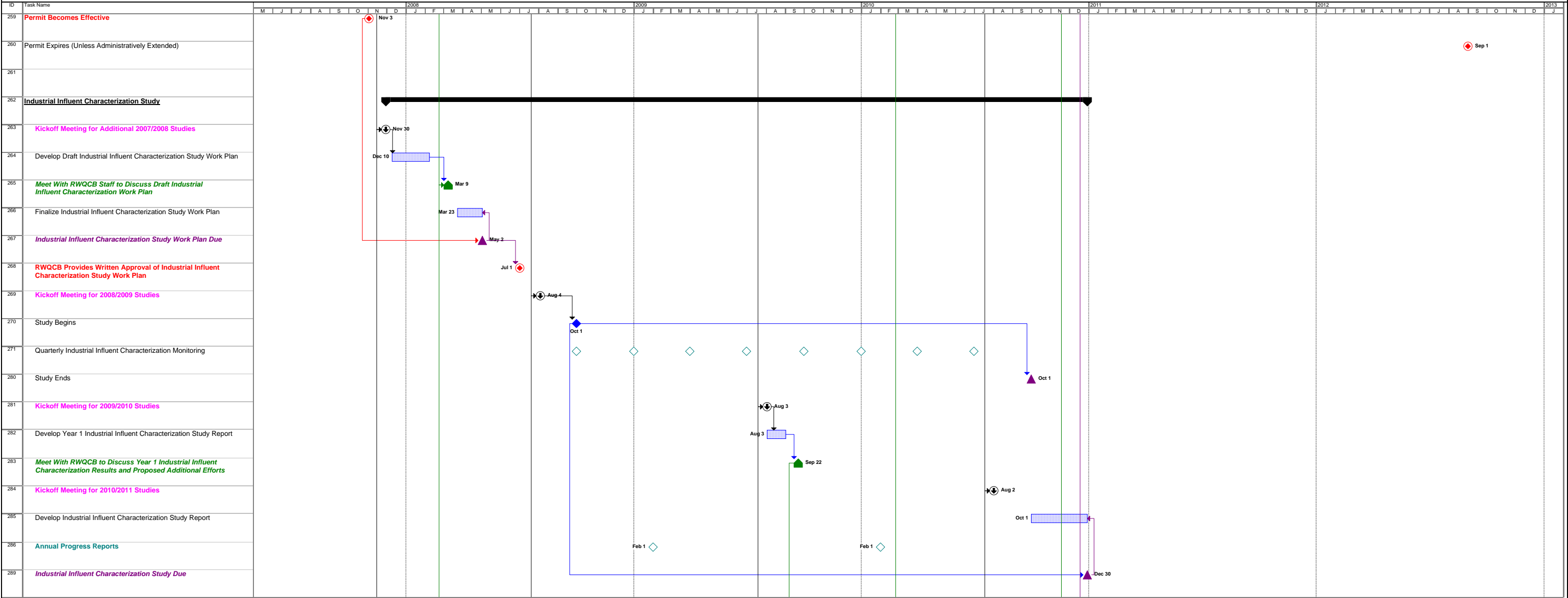




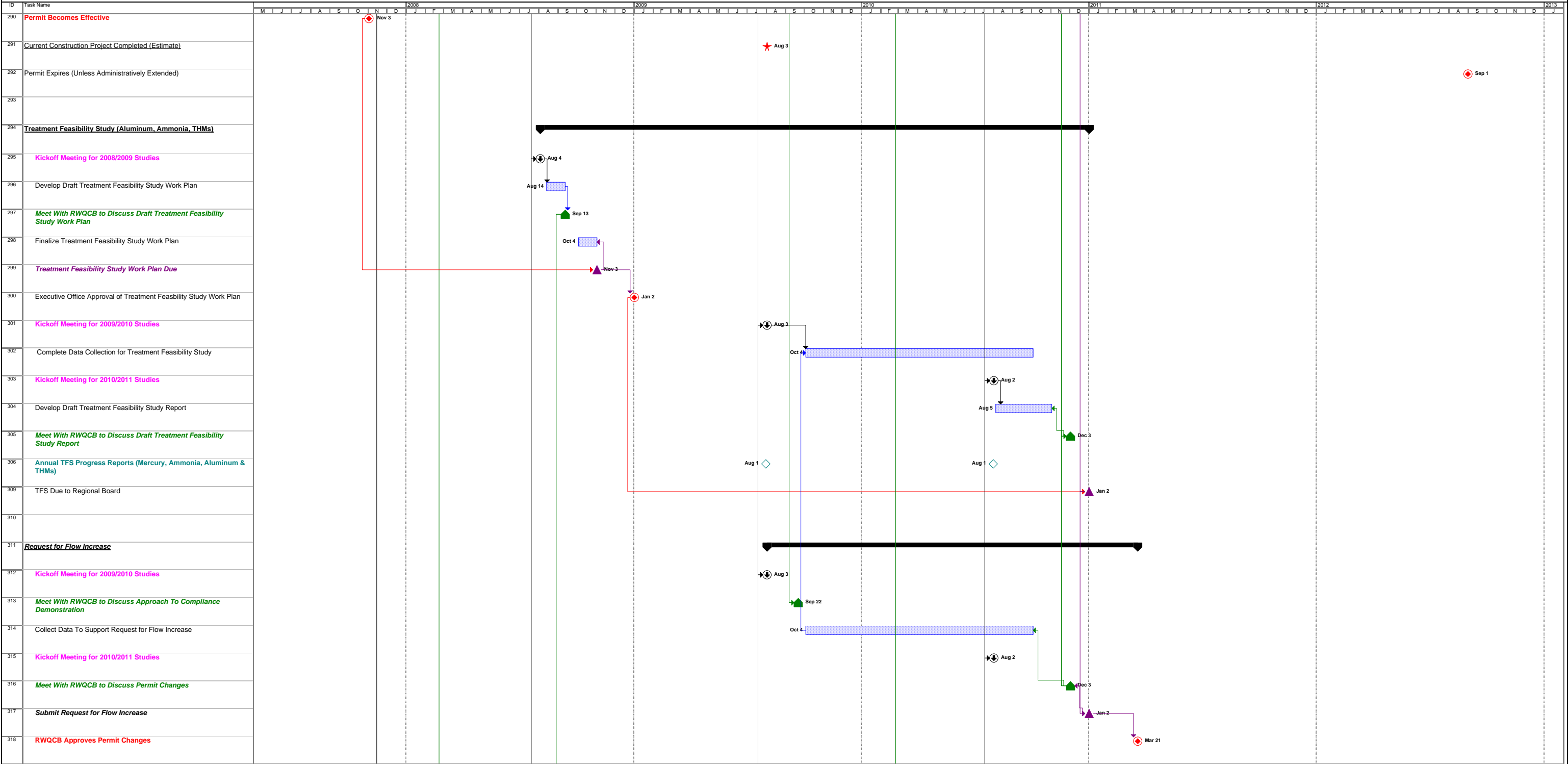
City of Lodi  
Water Pollution Control Facility  
NPDES Permit Compliance Master Schedule



City of Lodi  
Water Pollution Control Facility  
NPDES Permit Compliance Master Schedule



City of Lodi  
Water Pollution Control Facility  
NPDES Permit Compliance Master Schedule

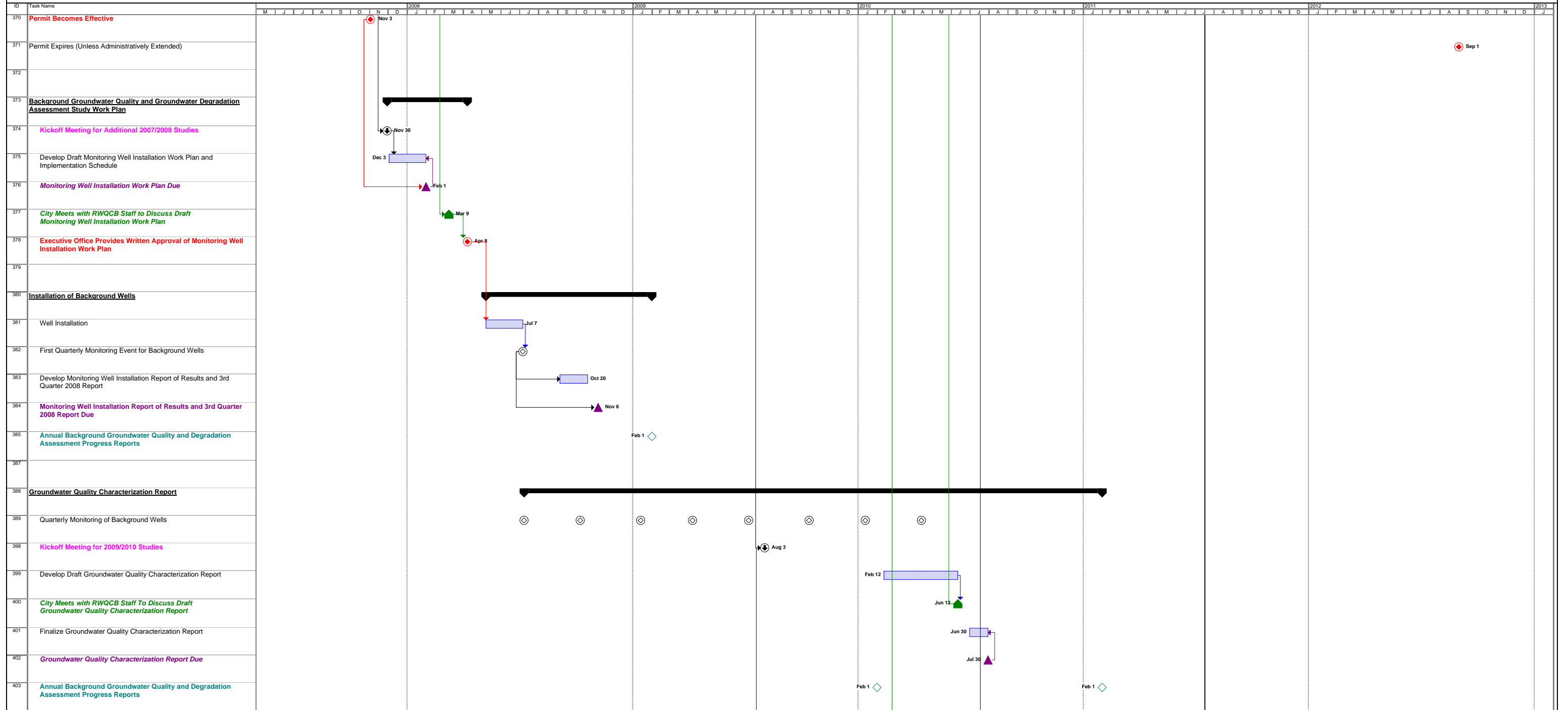


**City of Lodi**  
**Water Pollution Control Facility**  
**NPDES Permit Compliance Master Schedule**

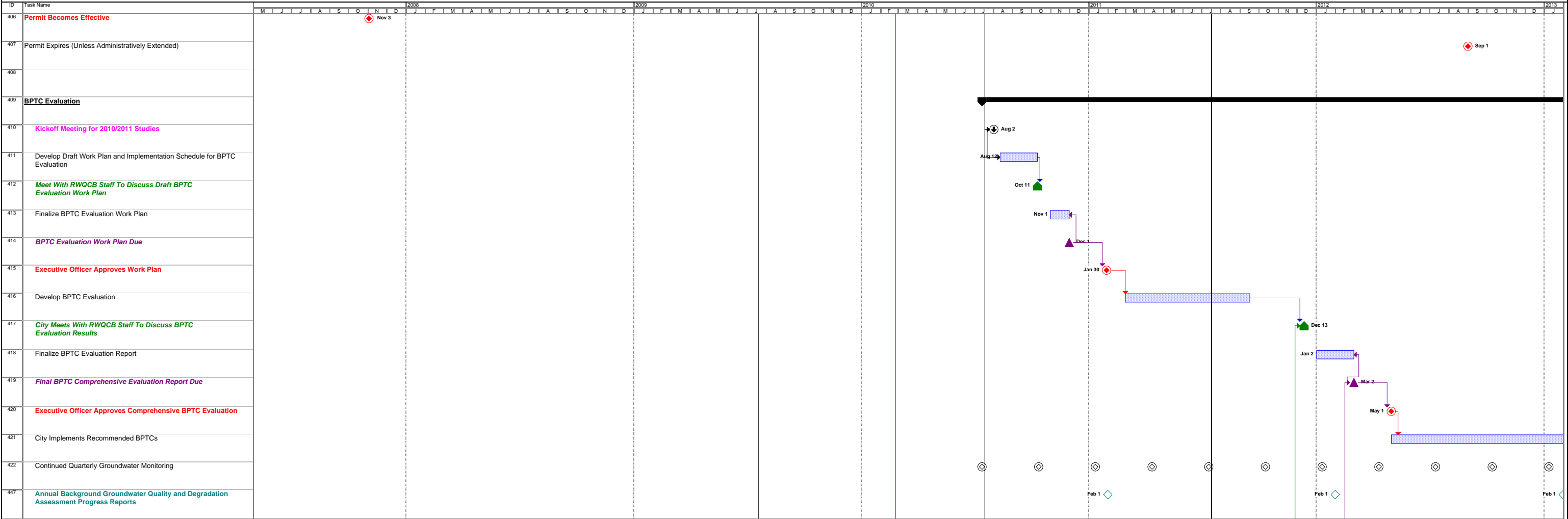
[illegible]

[illegible]

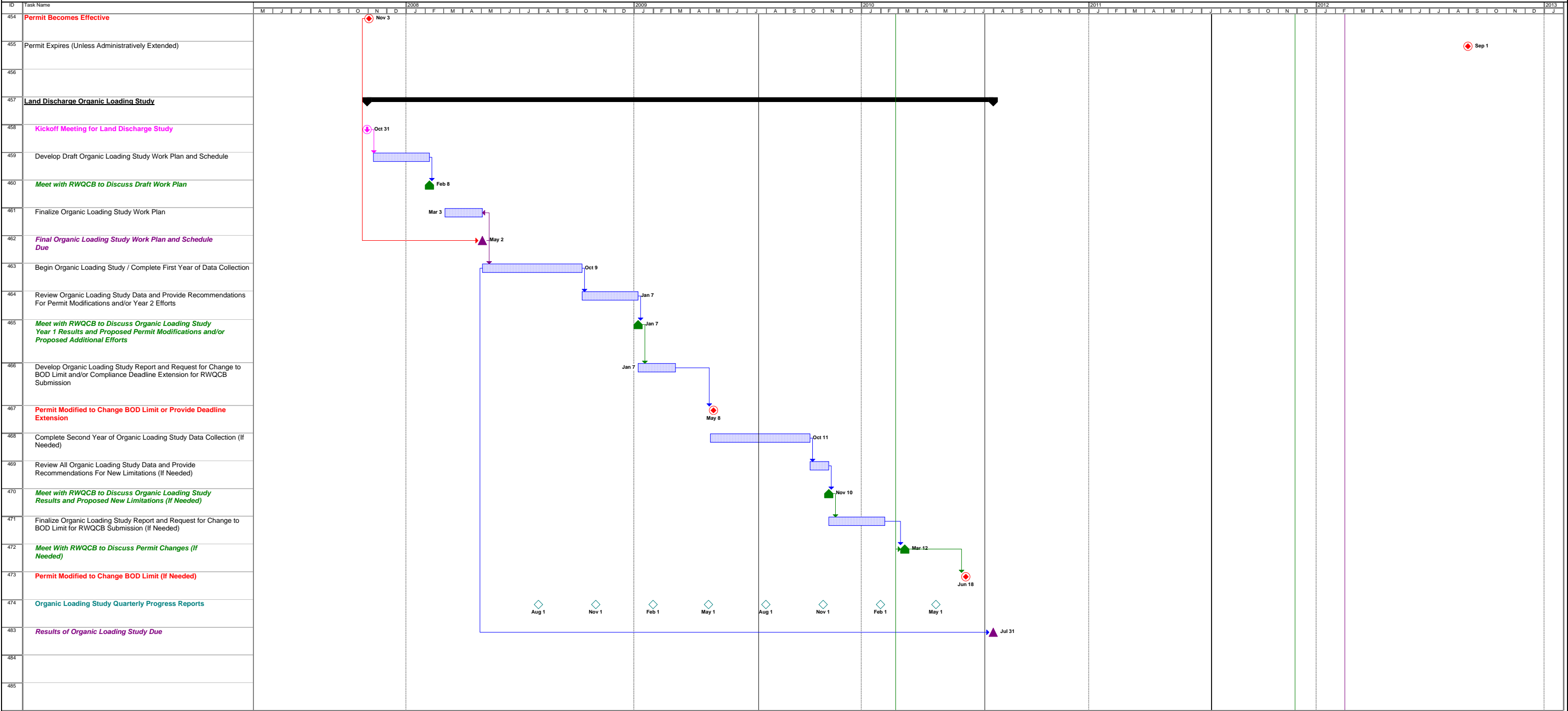
**City of Lodi  
Water Pollution Control Facility  
NPDES Permit Compliance Master Schedule**



City of Lodi  
Water Pollution Control Facility  
NPDES Permit Compliance Master Schedule

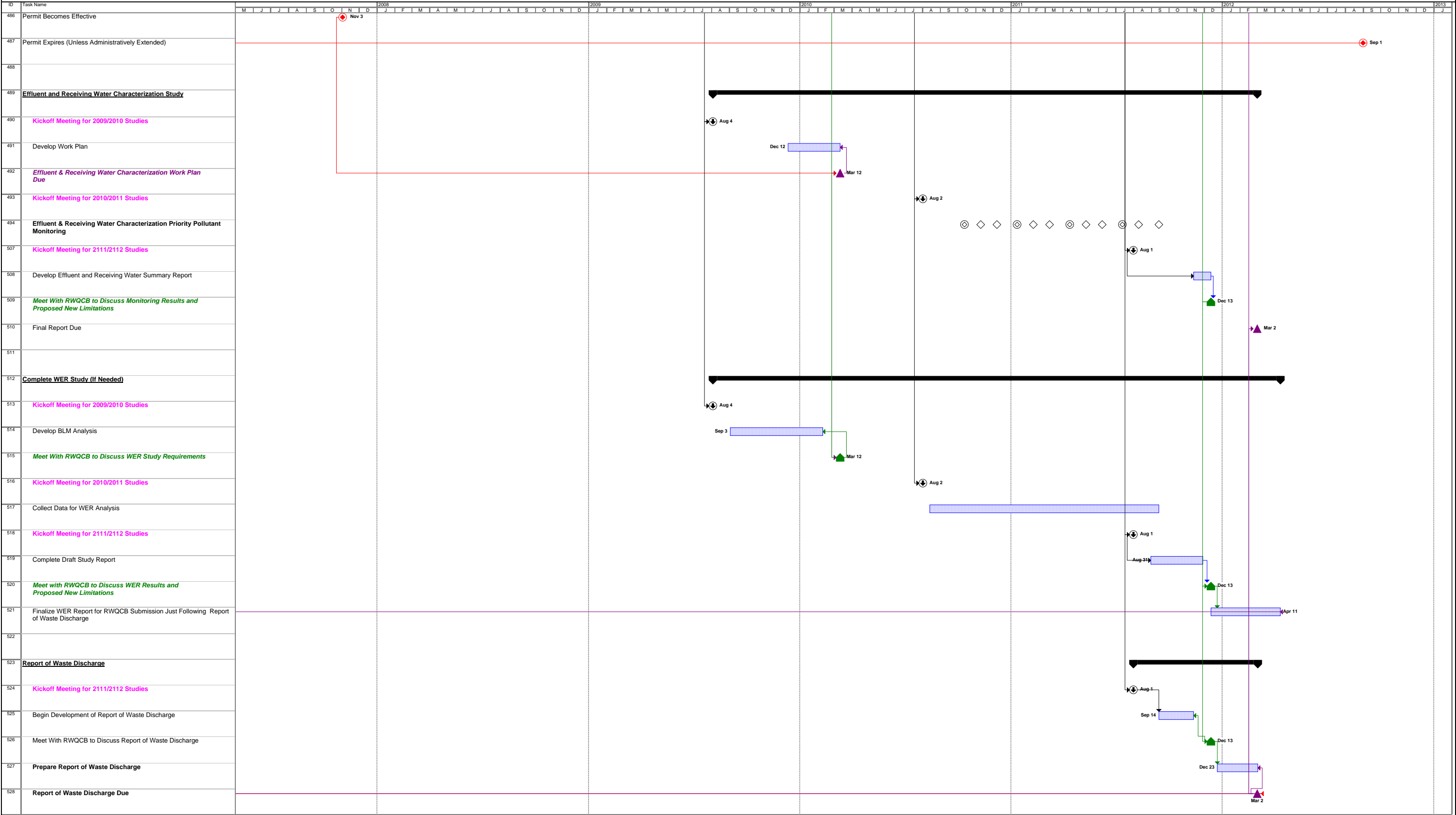


City of Lodi  
Water Pollution Control Facility  
NPDES Permit Compliance Master Schedule





City of Lodi  
Water Pollution Control Facility  
NPDES Permit Compliance Master Schedule



RESOLUTION NO. 2007-243

A RESOLUTION OF THE LODI CITY COUNCIL  
AUTHORIZING ADDITIONAL TASK ORDERS FOR WEST YOST  
& ASSOCIATES TO PREPARE WORK PLANS AND PROVIDE  
ONGOING PERMIT ASSISTANCE, AND FURTHER  
APPROPRIATING FUNDS FOR THIS WORK

---

WHEREAS, the City's new wastewater discharge permit issued by the Central Valley Regional Water Quality Control Board includes requirements for a number of studies to be conducted and plans or reports to be developed on various aspects of the City's wastewater treatment operations; and

WHEREAS, these studies begin with preparation of a work plan, which describes in some detail the work to be done, sampling methods and frequencies, reports to be issued, and a schedule. In addition, the City's permit issued by the Central Valley Regional Water Quality Control Board has been appealed to the State Water Resources Control Board by the California Sportfishing Protection Alliance; and

WHEREAS, West Yost & Associates has furnished the City with a combined proposal to address these issues and staff recommends continuing to utilize its services for this work as it is very familiar with the City's permit and operations and has performed well in the past.

NOW, THEREFORE, BE IT RESOLVED that the Lodi City Council hereby authorizes additional task orders for West Yost & Associates to prepare work plans required by the City's wastewater discharge permit and for ongoing permit assistance; and

BE IT FURTHER RESOLVED that funds in the amount of \$317,000.00 be appropriated in the Wastewater Fund for this work.

Dated: December 19, 2007

---

I hereby certify that Resolution No. 2007-243 was passed and adopted by the City Council of the City of Lodi in a regular meeting held December 19, 2007, by the following vote:

AYES: COUNCIL MEMBERS – Hansen, Johnson, Katzakian, and Mayor Mounce  
NOES: COUNCIL MEMBERS – None  
ABSENT: COUNCIL MEMBERS – Hitchcock  
ABSTAIN: COUNCIL MEMBERS – None

  
RANDI JOHL  
City Clerk

CITY COUNCIL

BOB JOHNSON, Mayor  
JOANNE L. MOUNCE  
Mayor Pro Tempore  
LARRY D. HANSEN  
SUSAN HITCHCOCK  
PHILKATZAKIAN

# CITY OF LODI

## PUBLIC WORKS DEPARTMENT

CITY HALL, 221 WEST PINE STREET  
P.O. BOX 3006  
LODI, CALIFORNIA 95241-1910  
(209) 333-6706  
FAX (209) 333-6710  
EMAIL [pwdept@lodi.gov](mailto:pwdept@lodi.gov)  
<http://www.lodi.gov>

BLAIR KING  
City Manager  
RANDI JOHL  
City Clerk  
D. STEVEN SCHWABAUER  
City Attorney  
RICHARD C. PRIMA, JR.  
Public Works Director

December 14, 2007

West Yost Associates  
131A Stony Circle, Ste. 400  
Santa Rosa, CA 95401

SUBJECT: Adopt Resolution Authorizing Additional Task Orders for West Yost Associates to Prepare Work Plans Required by the City's Wastewater Discharge Permit and for Ongoing Permit Assistance and Appropriating \$317,000 in the Wastewater Fund

Enclosed is a copy of background information on an item on the City Council agenda of Wednesday, December 19, 2007. The meeting will be held at 7 p.m. in the City Council Chamber, Carnegie Forum, 305 West Pine Street.

This item is on the consent calendar and is usually not discussed unless a Council Member requests discussion. The public is given an opportunity to address items on the consent calendar at the appropriate time.

If you wish to write to the City Council, please address your letter to City Council, City of Lodi, P. O. Box 3006, Lodi, California, 95241-1910. Be sure to allow time for the mail. Or, you may hand-deliver the letter to City Hall, 221 West Pine Street.

If you wish to address the Council at the Council Meeting, be sure to fill out a speaker's card (available at the Carnegie Forum immediately prior to the start of the meeting) and give it to the City Clerk. If you have any questions about communicating with the Council, please contact Randi Johl, City Clerk, at (209) 333-6702.

If you have any questions about the item itself, please call me at (209) 333-6759.



for: Richard C. Prima, Jr.  
Public Works Director

RCP/pmf

Enclosure

cc: City Clerk